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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/693,798	10/19/2000	Leslie V. Niles	5465	8692
758	7590	02/27/2004	EXAMINER	
FENWICK & WEST LLP SILICON VALLEY CENTER 801 CALIFORNIA STREET MOUNTAIN VIEW, CA 94041			SON, LINH L D	
			ART UNIT	PAPER NUMBER
			2135	4
DATE MAILED: 02/27/2004				

Please find below and/or attached an Office communication concerning this application or proceeding.

PPL

Office Action Summary	Application No.	Applicant(s)	
	09/693,798	NILES, LESLIE V.	
	Examiner	Art Unit	
	Linh LD Son	2135	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 10/19/00.
 2a) This action is **FINAL**. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-33 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-33 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date _____.

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
 5) Notice of Informal Patent Application (PTO-152)
 6) Other: _____.

DETAILED ACTION

Drawings

1. New corrected drawings are required in this application because Figures 1-4A have handwriting labels. The requirement for corrected drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 9 and 10 recite the limitation "sequence number" in claim 8. There is insufficient antecedent basis for this limitation in the claim. Examiner will assume that the inventor referring the "sequence number" claimed in claim 2. Otherwise, applicant needs to provide appropriate correction.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. **Claims 1-2, 6-14, 16-19, and 23-31** are rejected under 35 U.S.C. 102(e) as being anticipated by Dietz et al (US/6651099).
5. As per **claim 1**, Dietz et al disclose a method for providing a unique identification of monitored network data instances flowing across various connections between networked devices, the unique identification being derived from information contained entirely within each instance of the network data, the method comprising: using at least one monitoring device to monitor a network data instance flowing across at least one data connection (Col 8 line 64 and Fig 1); deriving from the data instance certain information which collectively provides a unique identification (Col 13 lines 20-22) of the network data instance; assembling the derived information into an input string for a hash function (Col 13 lines 1-29); and using the output string of the hash function as a signature which represents a unique identifier of the network data instance (Col 13 lines 30-36).
6. As per **claims 2 and 19**, Dietz et al disclose the method according to Claims 1 and 18, wherein the deriving step includes: deriving from the data instance a source and destination address for the data (Col 9 lines 58-67 and Col 10 lines 1-7); deriving from the data instance a source and destination port associated with the networked devices (Col 10 lines 8-22); deriving from the data instance at least one sequence number associated with data instance (Col 13 lines 30-33). The hash output string is the sequence number.

7. As per **claims 6 and 23**, Dietz et al disclose the method according to Claims 1 and 18, wherein network data instances are data packets as part of a TCP/IP (Transmission Control Protocol/Internet Protocol) client-server network (Col 8 lines 57-67).
8. As per **claims 7 and 24**, Dietz et al disclose the method according to Claims 6 and 23, wherein the source and destination addresses include a client IP address and a server IP address. The source and destination addresses include a client IP address and a server IP address is inherent in a TCP/IP network. It is well known in the art that the IP data packet has the source and destination address in the header.
9. As per **claims 8 and 25**, Dietz et al disclose the method according to Claims 7 and 24, wherein the source and destination port of a client port number and a server port number is also inherent in a TCP/IP network. It is well known in the art that the IP data packet has the source and destination ports associate to the protocol in the header.
10. As per **claims 9 and 26**, Dietz et al disclose the method according to Claims 2, wherein the at least one sequence number includes a client sequence number or a server sequence number (Col 12 lines 13-22). It is well known in the art that the

protocol type associates with a port number of the source and destination, which is interpreted a sequence number.

11. As per **claims 10 and 27**, Dietz et al disclose the method according to Claims 9 and 26, wherein the at least one sequence number includes both a client sequence number and a server sequence number (Col 12 lines 13-22). It is well known in the art that the protocol type associates with a port number of the source and destination, which is interpreted a sequence number.
12. As per **claims 11 and 28**, Dietz et al disclose the method according to Claims 2 and 19, wherein the input string information does not include sequence numbers. The input string is the length of the header (Col 13 lines 3-4) and the sequence number is the port number associated to the protocol communication between the client and the server (Col 12 lines 13-22).
13. As per **claims 12 and 29**, Dietz et al disclose the method according to Claims 11 and 28, wherein the network data instances are datagrams as part of a UDP/IP (User Datagram Protocol/Internet Protocol) network (Col 9 line 44).
14. As per **claims 13 and 30**, Dietz et al disclose the method according to Claims 1 and 18, which further includes: truncating the signature to include fewer bits than the hash function output string (Col 17 line 13 and lines 7-19).

15. As per **claims 14 and 31**, Dietz et al disclose the method according to Claims 1 and 18, which further includes: adding flag bits to the signature which indicate the type of application associated with the network data instance (Col 17 line 47 and lines 29-47).
16. As per **claim 16**, Dietz et al disclose the method according to Claim 1, wherein the monitoring device operates to directly monitor the network data (108, Fig 1)
17. As per **claim 17**, Dietz et al disclose the method according to Claim 1, wherein the monitoring device operates to indirectly monitor the network data (Col 28 lines 56-64). SNMP is used to send the network data of the device to the packet acquisition device of the monitor.
18. As per **claim 18**, Dietz et al disclose an apparatus for providing a unique identification of monitored network data instances flowing across various connections between networked devices, the unique identification being derived from information contained entirely within each instance of the network data, the apparatus comprising: at least one monitoring device positioned to monitor a network data instance flowing across at least one data connection (Col 8 line 64 and Fig 1); a hash function device having an input string and an output string, the input string assembled from certain information derived from the network data

instance, the information collectively providing a unique identification of the network data instance; wherein the output string is used as a signature which represents a unique identifier of the network data instance.

Claim Rejections - 35 USC § 103

19. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 20. (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.
21. **Claims 3-5, 15, 20-22, 32, and 33** are rejected under 35 U.S.C. 103(a) as being unpatentable over Dietz et al (US-6651099).
22. As per **claims 3, 4, 20, and 21**, Dietz et al disclose the method according to Claims 1 and 18, which further includes: attaching the signature to at least one data report associated with the network data instance (Col 20 lines 40-60); However, Dietz et al do not disclose the transmitting data reports and signatures from each monitoring device to a central collecting device. Nevertheless, Dietz et al do teach the monitor the device being part of a network (Fig 1), which is capable to transmit and receive data from any workstations or network devices.

It is obvious to one ordinary skill in the art at the time the invention was made that data transmitting from remote device to a central collecting and well known in the art.

23. As per **claims 5 and 22**, Dietz et al disclose the method according to Claims 3 and 20. However, Dietz et al do not mention the central collecting device uses the signatures to eliminate duplicate data reports that might come in from different monitoring devices positioned at different locations on the network. Nevertheless, this feature is obvious to one ordinary skill in the art at the time the invention was made to recognize that the data reports coming from different devices will have different signatures, since the signature is composed of protocol, ip addresses of the source and destination (Col 13 lines 30-35).

24. As per **claims 15 and 32**, Dietz et al disclose the method according to Claims 3 and 20. However, Dietz et al do not mention the monitor serves as a data reduction device for data report and signature information being sent to the central data collector. Nevertheless, Dietz et al do teach the input string truncation to reduce the signature (Claim 13) (Col 17 line 13 and lines 7-19). It is obvious to one ordinary skill in the art at the time the invention was made to recognize that the monitor device can also be the data reduction device for the data report and signature.

25. As per **claim 33**, Dietz et al disclose method for providing a unique signature of monitored network data packets flowing across various connections between networked devices, the unique signature being derived from information contained entirely within each instance of the network data packet, the method comprising: using at least one monitoring device to monitor a network data packet flowing across at least one data connection (Col 8 line 64 and Fig 1); deriving from the data packet a source and destination address for the data is inherent in a TCP/IP network; deriving from the data packet a source and destination port associated with the networked devices is inherent in a TCP/IP network; deriving from the data packet at least one sequence number associated with data instance (Col 13 lines 28-29); assembling the derived addresses, ports, and at least one sequence number information into an input string for a hash function (Col 13 lines 20-29); and using the output string of the hash function as the signature which represents a unique identifier of the network data packet (Col 13 lines 30-35); attaching the signature to at least one data report associated with the network data packet (Col 20 lines 40-60); and Since the statistical information is stored in a database, the transmitting the data reports and signatures from each monitoring device to a central collecting device for analysis is well known in the art. Transmitting information from numerous devices to a central collector is well known. It is obvious to one ordinary skill in the art at the time the invention was made to know that that the IP data packet has the source and destination address in the header, the IP data packet has the source and

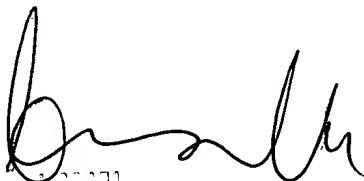
destination ports associate to the protocol in the header, and transmits information from numerous devices to a central collect.

Conclusion

26. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
27. Any inquiry concerning this communication from the examiner should be directed to Linh Son whose telephone number is (703)-305-8914.
28. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Kim Y. Vu can be reached at (703)-305-4393. The fax numbers for this group are (703)-872-9306 (official fax). Any inquiry of general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (703)-305-9600.

Linh LD Son

Patent Examiner



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